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**21** Third Generation Computer Systems 77%

Peter J. Denning  
ACM Computing Surveys (CSUR) December 1971  
Volume 3 Issue 4

The common features of third generation operating systems are surveyed from a general view, with emphasis on the common abstractions that constitute at least the basis for a "theory" of operating systems. Properties of specific systems are not discussed except where examples are useful. The technical aspects of issues and concepts are stressed, the nontechnical aspects mentioned only briefly. A perfunctory knowledge of third generation systems is presumed.

**22** ILE: a Java-based environment for CS courses 77%

H. Hosny , O. Khaled , M. E. Fathalla  
ACM SIGCSE Bulletin , Proceedings of the 5th annual SIGCSE/SIGCUE ITiCSEconference on Innovation and technology in computer science education July 2000  
Volume 32 Issue 3

This paper provides an overview of the Interactive Lab Environment (ILE) project and a report on its current status and future directions. ILE is the framework of a customized interactive lab environment for computing concepts and courseware that we developed for our department using Java. In essence ILE is a well-managed, networked set of resources that offers its users a collection of tools. The most

significant of these tools are the flexible routes through an interactive learning environment ...

**23** H-RMC: a hybrid reliable multicast protocol for the Linux kernel 77%

 Philip K. McKinley , Ravi T. Rao , Robin F. Wright

Proceedings of the 1999 ACM/IEEE conference on Supercomputing  
(CDROM) January 1999

**24** EROS: a fast capability system 77%

 Jonathan S. Shapiro , Jonathan M. Smith , David J. Farber

ACM SIGOPS Operating Systems Review , Proceedings of the  
seventeenth ACM symposium on Operating systems principles December  
1999

Volume 33 Issue 5

EROS is a capability-based operating system for commodity  
processors which uses a single level storage model. The single level  
store's persistence is transparent to applications. The performance  
consequences of support for transparent persistence and  
capability-based architectures are generally believed to be negative.  
Surprisingly, the basic operations of EROS (such as IPC) are  
generally comparable in cost to similar operations in conventional  
systems. This is demonstrated with a set of microbe ...

**25** Protocol discovery in multiprotocol networks 77%

 Russell J. Clark , Mostafa H. Ammar , Kenneth L. Calvert

Mobile Networks and Applications December 1997

Volume 2 Issue 3

Interoperability requires that communicating systems support  
compatible protocols. Maintaining compatible protocols is problematic  
in heterogeneous networks, especially in a wireless infrastructure  
where hosts can move from one protocol environment to another. It  
is possible to improve the flexibility of a communication network's  
operation by deploying systems that support multiple protocols.  
These multiprotocol systems require support mechanisms that enable  
users to effectively access the ...

**26** Hardware and software support for efficient exception handling 77%

 Chandramohan A. Thekkath , Henry M. Levy

ACM SIGPLAN Notices , Proceedings of the sixth international conference  
on Architectural support for programming languages and operating  
systems November 1994

Volume 29 Issue 11

Program-synchronous exceptions, for example, breakpoints,  
watchpoints, illegal opcodes, and memory access violations, provide  
information about exceptional conditions, interrupting the program

and vectoring to an operating system handler. Over the last decade, however, programs and run-time systems have increasingly employed these mechanisms as a performance optimization to detect normal and expected conditions. Unfortunately, current archi ...

**27** Before the Altair: the history of personal computing 77%

 Larry Press

Communications of the ACM September 1993

Volume 36 Issue 9

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